

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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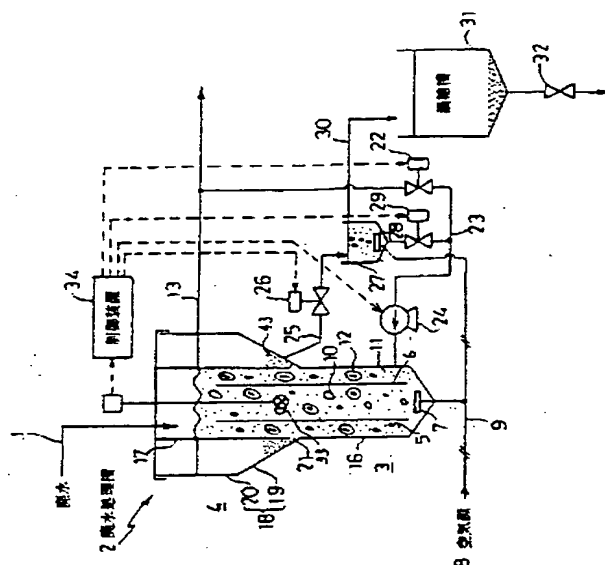
APPLICATION DATE : 18-09-89  
APPLICATION NUMBER : 01240056

APPLICANT : TOSHIBA CORP;

INVENTOR : KAWACHI KYOZO;

INT.CL. : C02F 3/08 C02F 3/12

TITLE : WASTE WATER TREATING DEVICE



ABSTRACT : PURPOSE: To maintain the concn. of the suspended sludge in a reaction chamber within a prescribed range by controlling the treatment so as to discharge the excess sludge when the concn. of the suspended sludge in a waste water treating tank exceeds a prescribed upper limit value and to supply the excess sludge when the above-mentioned concn. falls below a prescribed lower limit value.

CONSTITUTION: A sludge concn. meter 33 is installed in the reaction chamber 3. The excess sludge is discharged to lower the concn. of the sludge when the concn. of the sludge detected by this meter exceeds the prescribed upper limit value. The discharged sludge is aerobically accumulated in a sludge storage tank 27. This sludge is supplied into the reaction chamber 3 to increase the concn. of the sludge when the concn. of the sludge in the reaction chamber 3 falls below the prescribed lower limit value. The concn. of the suspended sludge adequate for forming biofilms is, therefore, maintained in a biofilm forming stage and the concn. of the suspended sludge is so set as to increase the biofilm ratio in an ordinary operation stage. The formation of the biofilms and the removal of soluble org. matter are, therefore, executed with high efficiency.

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